

BX6843.

TYPE 1 CAMERA EXPOSURE NUMBERS

Primary

TIME (MIN)	ALTITUDE (FEET)	TERR ELEV	D VALUE	GRD SPD	SUN ANG	HAZE FCTR	REFL FCTR	* OUTPUT DATA	
								V/H	EXP NOS
00	77900	265		1765	54	1	I	3.836	08
03	78400	279		1774	53	1	I	3.831	08
06	81900	426		1801	51	1	I	3.730	08
09	83400	100		1815	50	1	I	3.676	08
12	84600	1952		1820	49	1	I	3.716	08
15	85600	1837		1828	47	1	I	3.683	08
18	85700	60		1841	45	1	H	3.627	09
21	86300	3790		1838	45	1	H	3.759	09
24	87200	6400		1833	44	1	I	3.828	08
27	81900	3950		1796	45	1	I	3.889	08
27 END FIRST PASS									
30	57000	2500		1400	47	1	I	4.334	08
33	68000	2500		1600	47	1	I	4.122	08
36	74000	1610		1785	46	1	I	4.160	08
39	80300	1829		1829	45	1	I	3.933	08
42	80700	295		1826	45	1	H	3.833	08
45	81000	840		1827	44	1	H	3.846	08
48	81400	840		1820	45	1	H	3.813	08
51	82100	689		1823	46	1	I	3.779	08
54	82600	0000		1823	46	1	I	3.725	08
57	78000	0000		1764	47	1	I	3.816	08
60	78500	0000		1779	48	1	I	3.825	08

64 END SECOND PASS TOTAL CAM TIME 64 MINUTES

TOP SECRET

TYPE 1 CAMERA EXPOSURE NUMBERS

TIME	ALTITUDE	TERR	D	GRD	SUN	HAZE	REFL	* OUTPUT DA	
								V/H	E

BX6843 - BACK-UP

(MIN)	(FEET)	ELEV	VALUE	SPD	ANG	FCTR	FCTR	NOS	
00	77900	265		1765	55	1	I	3.836	08
03	78400	279		1774	53	1	I	3.831	08
06	81900	426		1801	52	1	I	3.730	08
09	83400	100		1815	50	1	I	3.676	08
12	84600	1952		1820	48	1	I	3.716	08
15	85600	1837		1828	47	1	I	3.683	08
18	85700	60		1841	46	1	H	3.627	09
21	86300	3790		1838	46	1	H	3.759	09
24	87200	6400		1833	47	1	I	3.828	08
27	81900	3950		1796	47	1	I	3.889	08
27	END FIRST PASS								
30	57000	2500		1400	44	1	I	4.334	08
33	68000	2500		1600	44	1	I	4.122	08
36	74000	1610		1785	44	1	I	4.160	08
39	80300	1829		1829	44	1	I	3.933	08
42	80700	295		1826	42	1	H	3.833	09
45	81000	840		1827	41	1	H	3.846	09
48	81400	840		1820	40	1	H	3.813	09
51	82100	689		1823	40	1	I	3.779	08
54	82600	0000		1823	41	1	I	3.725	08
57	78000	0000		1764	41	1	I	3.816	08
60	78500	0000		1779	41	1	I	3.825	08

64 END SECOND PASS TOTAL CAM TIME 64 MINUTES

25X1 THIS IS A [REDACTED] MESSAGE FOR BX6843 TYPE 1 PACKAGE CUSTOM ROUTE

25X1 STBY 2 [REDACTED] SECOND PASS

CAM ON [REDACTED] CAM ON [REDACTED]
STBY 2 [REDACTED] STBY 2 [REDACTED]

25X1

END OF DATA

EOF

ABBREVIATED JOINT MESSAGEFORM
Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9
and/or CONTINUATION SHEET

100
ED

PHONE

25X1

PRECEDENCE

RELEASED BY

ACTION IMMEDIATE

INFO

25X1

25X1

FROM:

TO:

1 SIG CEN
1 COMDR
1 DCM
1 DCO
1 INS

A. BX 6843

B. INS ~~111~~ TAPE REPORT

C. INS Q10

D.

E. SEE H

F. SEE H

G. 5/020348Z - 5/064606Z

H. DATA GOOD. DATA WILL BE RETAINED UNLESS OTHERWISE NOTIFIED.

END OF MSG

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
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Next 9 Page(s) In Document Exempt

20140

27 JAN 68 03 36Z

25X1

Section	Act	Info
Comdr		
DCS		
DCO (2)		
DCM (2)		
Secur		
Admin		
Medic		
Finan		
R & D		
Commo		
HGR		
HGR/M		
H-1		
H-2E		
H-2P		
H-2M		
H-6H		

25X1
25X1

SECRET 270239Z JAN 68 CITE [REDACTED]

25X1
25X1 PRIORITY [REDACTED] INFO [REDACTED]

SUBJ: EVALUATION OF BLACK SHIELD, MISSION BX6843

1. CAMERA TYPE 1 (115A) UNIT C WAS USED ON MISSION BX6843 FLOWN 5 JANUARY 1968. THE MISSIONS CONSISTS OF 1566 TITLED FRAMES AND WAS PROCESSED IN THE FIELD.

2. BOTH CAMERAS OPERATED SATISFACTORILY THROUGHOUT THE MISSION, EXCEPT ON FRAMES 1349-1382 (SEE PARA 4). GROUND RESOLUTION OBTAINED AT NADIR DURING STRAIGHT AND LEVEL FLIGHT WITH THE CAMERA UNGAGED IS ESTIMATED TO BE 18 INCHES (BAR PLUS SPACE).

3. EXPOSURE IS ADEQUATE THROUGHOUT THE MISSION. PROCESSING WAS SATISFACTORY.

4. START-UP AND SHUT-DOWN WERE NORMAL. THE CAMERA RECYCLED BETWEEN FRAMES 763-786. A TOTAL OF 49 AFT FRAMES ARE LACKING DATA BLOCKS. EMULSION SCRATCHES OCCURRED DURING START-UP AND SHUT-DOWN APPROXIMATELY 0.5 INCH FROM THE LEADING EDGE (EDGE OPPOSITE THE CLOCKS). MINOR EMULSION SCRATCHES ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION WITH ONE SCRATCH 0.7 INCH FROM THE LEADING EDGE IN ALL FRAMES. THESE FAINT SCRATCHES CAUSE NO IMAGE DEGRADA-

25X1

PAGE 2 SECRET

TION. APPROXIMATELY EVERY OTHER FORWARD FRAME DATA BLOCK ENTERS THE FORMAT (A MAXIMUM OF 0.4 INCHES). THE TIMING MARKS ALONG THE TRAILING EDGE OF THE FORWARD FRAMES OCCASIONALLY RUN OFF THE FILM EDGE AT THE NON-DATA BLOCK END. UP TO SEVEN INCHES OF TIME TRACK IS MISSING AT THE BEGINNING OF SCAN. TWO MINUS DENSITY LINES (2.7 AND 2.8 INCHES FROM THE LEADING EDGE) ARE DETECTABLE IN ALL FORWARD FRAMES. ONE MINUS DENSITY LINE (2.4 INCHES FROM THE LEADING EDGE) IS PRESENT IN ALL AFT FRAMES. A PIECE OF EMULSION 0.1 INCH SQUARE IS MISSING FROM THE MIDDLE OF FRAME 144. THERE ARE FOUR CASES OF OVERLAPPING FRAMES OTHER THAN THOSE DUE TO START-UP, SHUT-DOWN OR CAMERA RECYCLE. THREE OF THESE CASES INVOLVE ONLY TWO FRAMES EACH. FRAMES 645/648, 685/688, AND 1427,1428. THE MAXIMUM OVERLAP OF THESE THREE CASES IS 0.15 INCH. ALSO FRAMES 1349 AND 1382, OVERLAP A MAXIMUM OF 5.8 INCHES. THE CAMERA WAS RUNNING SLOW DURING THESE FRAMES. FRAME 597 CONTAINS A 0.5 INCH LONG CRIMP RUNNING ACROSS TRACK. HEAT SPLICES ARE PRESENT BETWEEN FRAMES 267/270, 675/678, 761/764 AND 1209/1212. FRAME 498 HAS AN ULTRA-SONIC SPLICE IN IT. INK OR GREASE STAINS THAT RESEMBLE FINGER PRINTS ARE ALSO PRESENT ADJACENT TO THE SPLICE. A PLUS DENSITY AREA (0.5 INCH ACROSS TRACK BY 0.5 INCH ALONG TRACK) APPEARED ON

25X1

PAGE 3 SECRET

THE TRAILING EDGE AFTER THE RECYCLE. IT APPEARED INTERMITTENTLY THROUGHOUT THE REST OF THE MISSION. WHEN TWO OR MORE OCCUR CLOSE TOGETHER, THEY ARE ALWAYS 21 INCHES APART. ALL FORWARD FRAMES BETWEEN 777 AND 853 CONTAIN A MINUS DENSITY BAND (0.25 INCH WIDE AND LOCATED 5 TO 6 INCHES FROM THE DATA BLOCK END OF FRAME) RUNNING ALONG TRACK. IT APPEARS TO BE A SHADOW OF THE VEHICLE'S CONTRAIL.

5. A YELLOW DISCOLORATION WAS NOTED THROUGHOUT THE MISSION ON THE ORIGINAL NEGATIVE.

6. BOTH PROGRAMMED AND SENSED V/H WERE USED ON THIS MISSION. THE IMAGERY OBTAINED FROM EACH IS SATISFACTORY.

7. THE CORRELATION OF THE INS TAPE, FILM DATA BLOCK AND IMAGERY IS SATISFACTORY.

8. THE ZERO PRIORITY REPRODUCTION AND REGULAR REPRODUCTION APPEAR TO BE OF EQUAL QUALITY.

9. CLOUDS OBSCURE APPROXIMATELY 30 PERCENT OF THE MISSION.

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Focus
Film

SECRET

25X1

25X1

ZCZC697

FTP989/052235Z ZFF-1 ZPO [REDACTED]

BT

XXXXX

OPCEN 789 [REDACTED]

OPCEN PASS [REDACTED]

25X1

25X1

5 JUN 69 22 48Z

274123

25X1

25X1

TOP SECRET 052235Z SITE [REDACTED]

25X1

IMMEDIATE [REDACTED] INFO [REDACTED]

A. BX 6843

B. INS TAPE EVALUATION REPORT

C. INS 010

D. 04/1120 3

E. 1. SATISFACTORY

2. SATISFACTORY

3. SATISFACTORY

4. SATISFACTORY

5. SATISFACTORY

6. SATISFACTORY

7. BETWEEN ELAPSED TIMES 13096 AND 13105, 13169, AND

13192, THE TENTHS DIGIT IN THE ROLL RECORDS WAS MISSING.

BETWEEN ELAPSED TIMES 13247 AND 13260 THERE WERE TWO LINES

WHERE THE TENTHS DIGIT IN THE ROLL RECORD WAS MISSING.

8. SATISFACTORY

9. SATISFACTORY

10. SATISFACTORY

F. TAPE APPEARS GENERALLY SATISFACTORY. TAPE EVALUATION

PERTAINS TO CAMERA OPERATION ONLY.

TOP SECRET

BT

25X1

25X1

OPCEN 217

OPCEN PASS

5 JAN 67 22 362

DCM

27412

ILLEGIB

TOP SECRET 622145Z CITE

25X1

25X1

- A. BX6843
- B. FLASH REPORT AFTER PROCESSING
- C. TYPE I
- D. C
- E. THE FILM ARRIVED IN GOOD PHYSICAL CONDITION WITH NORMAL EXPOSURE, MEDIUM CONTRAST, AND GOOD RESOLUTION. DATA RECORDING WAS OPERATIONAL IN FWD POSITION, AND INTERMITTANT IN THE AFT POSITION WITH 75 TO 100 CHAMBERS ABSENT. CAMERA STARTUP AND SHUTDOWN NORMAL WITH RECYCLE OCCURRING THROUGHOUT 40 FRAMES, 50 0/0 INTO MISSION. DATA CHAMBERS WERE SLANTED APPROXIMATELY 6 DEGREES. TO THE LEFT OF BIAS CAUSING SOME DATA CHAMBERS TO ENTER IMAGERY UP TO 1/16". TWO MINUS DENSITY LINES, 1/16" APART AND 3 3/4" FROM TRAILING EDGE AND ONE MINUS DENSITY LINE 1 1/4" FROM LEADING EDGE OCCURRING ON ALL FWD FRAMES. A MINUS DENSITY LINE WAS NOTED 2 1/2 INCHES FROM LEADING EDGE ON ALL AFT FRAMES. HEAVY YELLOW DISCOLORATION SIMILAR TO BX6842 PRESENT IN THE FILM. DISCOLORATION WAS NOT NOTED ON IDENT MATERIAL PRESPLICED ONTO MISSION MATERIAL. ALSO PRESENT WAS AN ORANGE PEEL EFFECT ON THE FILM.

TOP SECRET

BT

NNNN

ABBREVIATED JOINT MESSAGE FORM Approved For Release 2003/11/26 : CIA-RDP69B0041B001500020011-9 and/or CONTINUATION SHEET				SECURITY CLASSIFICATION SECRET
PRECEDENCE ACTION INFO	RELEASED BY	DRAFTED BY	PHONE	25X1
ROUTINE				
FROM: [REDACTED]				1 SIG CTR 1 CMDR 1 DOM 1 POL
TO: [REDACTED]				25X1
<p>1. (A) SPECIAL FUEL TEST REPORT (POST FLIGHT)</p> <p>(B) 504 1410L/5 071 1450L/5 520 1500L/5 088 1640L/5 089 2130L/5 095 2205L/5 125 2225L/5</p> <p>(C) FUEL TESTED IN PARA B QUAL IAW SECTION VII TEST CRITERIA</p> <p>2. (A) SPECIAL FUEL TEST REPORT (POST REFUEL)</p> <p>(B) 504 1440L/5 095 2240L/5 125 2300L/5 089 2350L/5</p> <p>(C) FUEL TESTED IN PARA B QUAL IAW SECTION VII TEST CRITERIA</p> <p>END OF MESSAGE</p>				
CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION SECRET
REGRADING INSTRUCTIONS				SECURITY CLASSIFICATION

Abbreviated Joint Message Form
and/or Continuation Sheet

SECURITY CLASSIFICATION

CONFIDENTIAL

PRECEDENCE
IMMEDIATE

RELEASED BY

ACTION
INFO

FROM:

TO:

1 SIG CEN
1 COMDR
1 DCM
1 DCO
1 INS ILLEGIB

25X1

25X1

25X1

- A. BX 6843
- B. INS ~~ME~~ TAPE REPORT
- C. INS 010
- D. [Redacted]
- E. SEE H
- F. SEE H
- G. 5/020348Z - 5/064606Z
- H. DATA GOOD. DATA WILL BE RETAINED UNLESS OTHERWISE NOTIFIED.

25X1

END OF MSG

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
REGRADING INSTRUCTIONS				SECURITY CLASSIFICATION	
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Approved For Release 2003/11/26 : CIA-RDP69B0041R001500020011-9
 ABBREVIATED JOINT MESSAGEFORM
 and/or CONTINUATION SHEET

SECRET

25X1	PRECEDENCE INFO	ROUTINE	DRAFTED BY	PHONE
25X1	FROM:			
25X1	TO:		INFO	
25X1			1 SIG CEN 1 COMDR 1 DCM 1 INS 1 DCO	

- A. BX 6843
- B. FINAL FIELD EVALUATION OF INS DATA
- C. INS 010
- D. LINE 23 FLIGHT DATA STARTS. GMT 02:29:20
 LINE 1299 FLIGHT DATA ENDS. GMT 06:04:16
 BETWEEN LINES 34&35 SCAN MISSING.
 LINE 306 BAD DUE TO TAPE TRANSPORT TURN ON. SUGGEST DELETION.
 ROLL INFORMATION BAD ON LINES 1161,1164,1178,1179. SUGGEST 00710.
 ROLL INFORMATION BAD LINE 1291. SUGGEST 00998.

END OF MSG

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
REGRADING INSTRUCTIONS				SECURITY CLASSIFICATION	

ABBREVIATED JOINT MESSAGEFORM
Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9
and/or CONTINUATION SHEETSECURITY CLASSIFICATION
SECRET

PHONE

PRECEDENCE **IMMEDIATE**
ACTION **IMMEDIATE**
INFO25X1
25X1

25X1

FROM: [REDACTED]
TO: [REDACTED]

INFO: [REDACTED]

1 SIG CEN
1 COMDR
1 DCM
1 P.E.
1 DCO

A. BX 6843

B. TYPE I CAMERA CONFIGURATION REPORT

C. I/C/5 JAN/131 [REDACTED]

D. 1760/880/880

E. 1640/820/820

F. 3404/1320/293-1-9-7

G. 3.8/YELLOW, WRATTEN 12

H. 54/45

47/48

I. 0401Z/0429Z

0513Z/0545Z

J. 15/190

6/210

18/190

9/210

42/190

K. NA

L. AS BRIEFED

M. BS SECURITY 050735Z

N. ELAPSED TIME READINGS: 4:42:25. SYSTEM OPERATED NORMALLY.

[REDACTED] COMPUTER OUT

V/H VALUES REQUIRES IN PARA J NOT AVAILABLE.

CONTROL NO.	TOR/TOD	PAGE ENCL 00	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
REGRADING INSTRUCTIONS				SECURITY CLASSIFICATION	

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REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.

3 100 10 132

ZCZC470

091/03210Z ZFF3

BT

XXXXX

25X1

25X1

25X1

25X1

TOP SECRET 03210Z CITE

IMMEDIATE [REDACTED] INFO IMMEDIATE [REDACTED]

A. BX6843

B. MISSION ALERT MSG

C. 0230Z/5 JAN 68.

25X1

D. [REDACTED]

E. NORTH VIETNAM.

25X1

F. TYPE I CAMERA, [REDACTED]

25X1

G. BACK-UP AIRCRAFT REQUIRED. SAME EQUIPMENT AS PARA F.

H. DTFC TO LAUNCH BACK-UP ACFT AT APPROX 0330Z/5 JAN 68 IN EVENT

PRIMARY ACFT GROUND/AIR ABORTS. THIS ALERT FOR CUSTOM BLACK SHIELD

25X1

ROUTE. A-50 ADDITIVE WILL NOT BE USED ON THIS MISSION. THIS ALERT

25X1

FOR A [REDACTED] A/R NR 1; [REDACTED] A/R NR 2.

TOP SECRET

BT

Dec 21

25X1

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BEST COPY

Available

SG1I

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JAN. 5, 1960

Submit to addressees specified for report

25X1

25X1

A. BX 6843
(Operations Mission Number)

25X1

B. TYPE I CAMERA CONFIGURATION REPORT

25X1

C. IC / JAN 5 / 131 / Example:
(Config./SN/Date Flown/Acft No./Pilot Pseudo)

D. 1760 1 880 880
(Total frames scheduled - fwd camera & aft camera).

E. 1640 1 820 820
(Total frames completed - fwd camera & aft camera).

F. 3404 / 1320 / 293-1-9-7
(Film type/box no./emulsion no. Example: 3401/1234/245-13-3-6).

G. 3.0/YELLOW, WRATTEN 12.

H. SUN ANGLES.

BEGINNING END
54 ° 1 45 °
47 ° 1 48 °
°, °

I. CAMERA ON CAMERA OFF (Date/Time ZELU. Example: 282118Z/200306).

040121 0429 Z.
051321 0545 Z.
Z. Z.

J. EXPOSED TIME (MINUTES)/EXPOSURE VALUE/V/F IN MICROSECONDS. EXAMPLE: 1/200,000.

15 ~~0811901~~ .
6 ~~182912101~~ .
8 ~~224211901~~ .
9 ~~12512101~~ .
42 ~~556411901~~ .

- 2 -

25X1

[Redacted]

CONT'D.

K. N/A.

L. WEATHER. (General comment on weather during photo portions of mission).

AS BRIEFED.

M. TAKE DISPOSITION (Location, shipment, or action on material - date/time 2000).
Example: EK 290135Z or Area Security 290135Z).

BS SECURITY 050735 2.

N. COMMENTS. (Include general remarks regarding configuration operation, malfunctions or mission problems).

ELAPSED TIME READINGS: 4:42:25

SYSTEM OPERATED NORMALLY.

25X1 [Redacted] COMPUTER OUT V/H VALUES REQUIRED

I/N PARA. J NOT AVAILABLE

NNNZCZC365

25X1 FTP 684/0192133 ZPO [REDACTED]

BT

XXXXX

25X1 OPCEN 867 [REDACTED]

OPCEN PASS [REDACTED]

25X1

TOP SECRET 192128Z JAN 68 CITS [REDACTED]

25X1

25X1 PRIORITY [REDACTED]

INFO [REDACTED]

25X1

A. BX 5843

B. INS-FILM CORRELATION REPORT

C. INS C18

D. 1. INS TAPE AND FILM AGREE

2. INS TAPE AND FILM AGREE

3. INS TAPE AND FILM AGREE

4. INS TAPE AND FILM AGREE

5. SATISFACTORY

6. SATISFACTORY

7. SATISFACTORY

8. SATISFACTORY

9. SATISFACTORY

10. FILM CLOCK SHOWS A CONSTANT BIAS OF PLUS ONE OR TWO SECONDS
THROUGHOUT THE MISSION.

E. SATISFACTORY CORRELATION HAS BEEN ACHIEVED ON THIS MISSION.

TOP SECRET

BT

DCP